Patent Database Search Results; ("component analysis" or pca) and ("genetic" or evolve o... Page 1 of 2

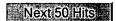
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Hits 1 through 50 out of 250



Jump To

Refine Search ("component analysis" or pca) and ("genetic" or evol

PAT.

 Citle

- NO.
- 1 7,171,339 Method and system for analyzing multi-variate data using canonical decomposition
- 2 7,166,424 Fragments of fluorescent proteins for protein fragment complementation assays
- 3 7,163,273 Printing cartridge with two dimensional code identification
- 4 7,155,395 Preprinted print rolls for postal use in an image processing device
- 5 7,152,939 T Printing cartridge with switch array identification
- 6 7,149,320 M Binaural adaptive hearing aid
- 7 7,144,553 II Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids which the
- 8 7,140,726 In Printing cartridge incorporating print media and an internal feed mechanism
- 9 7,136,716 Method for providing control to an industrial process using one or more multidimensional variables
- 10 7,135,616 II Biochemistry-related polynucleotides and polypeptides in plants
- 11 7,130,454 II Real-time facial recognition and verification system
- 12 7,129,095 Method and system for using a weighted response
- 13 7,128,386 Printer with capacitive printer cartridge data reader
- 14 7,127,104 T Vectorized image segmentation via trixel agglomeration
- 15 7,124,065 T Determining a tangent space and filtering data onto a manifold
- 16 7,119,836 Print roll for use in a camera imaging system
- 17 7,117,188 Methods of identifying patterns in biological systems and uses thereof
- 18 7,116,749 Methods for acquiring multi spectral data of an object.
- 19 7,115,229 Apparatus and method for monitoring molecular species within a medium
- 20 7,110,139 Printhead controller integrated circuit
- 21 7,109,001 T COBRA gene and uses thereof

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- Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 2 of 2
- 22 7,105,301 Detecting molecular binding by monitoring feedback controlled cantilever deflections
- 23 7,104,958 M Systems and methods for investigating intracranial pressure
- 24 7,100,834 Method of data distribution using ink dots on cards
- 25 7,097,973 M Method for monitoring molecular species within a medium
- 26 7.097.104 III Image manipulation device
- 27 7.092,011 The Camera for printing on media provided on print roll
- 28 7,089,780 The Apparatus, systems and methods for detecting and transmitting sensory data over a computer network
- 29 7,087,896 M Mass spectrometric quantification of chemical mixture components
- 30 7,084,951 The Combined media- and ink-supply cartridge
- 31 7,083,108 II Redundantly encoded data structure for encoding a surface
- 32 7.073.713 Tard having coded data and visible information, for operating a device
- 33 7,072,770 Method for identifying components of a mixture via spectral analysis
- 34 7,068,842 III System and method for object identification and behavior characterization using video analysis dia line
- 35 7.062,504 The Creating ensembles of oblique decision trees with evolutionary algorithms and sampling Still Action is
- 36 7.062,385 Intelligent electro-optical nucleic acid-based sensor array and method for detecting volatile compounds in ambient air
- 37 7,057,721 Wide field method for detecting pathogenic microorganisms
- 38 7,055,927 Method of identifying printing cartridge characteristics with capacitive sensors
- 39 7,054,792 II Method, computer program, and system for intrinsic timescale decomposition, filtering, and automated analysis of signals of arbitrary origin or timescale
- 40 7.054.468 Thrace recognition using kernel fisherfaces
- 41 7,052,103 II Printing device for use with a printing cartridge having capacitive sensor identification
- 42 7,050,143 Tamera system with computer language interpreter use compositions
- 43 7,044,589 T Printing cartridge with barcode identification
- 44 7.041.063 Noninvasive measurement of chemical substances
- 45 7.039.621 System, method, and computer program product for representing object relationships in a multidimensional space
- 46 7.039.446 Indirect measurement of tissue analytes through tissue properties
- 47 7.033.781 The Whole cell engineering by mutagenizing a substantial portion of a starting genome, combining mutations, and optionally repeating
- 48 7,031,778 In Temporary expanding integrated monitoring network

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John Joseph Chivograms

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- 49 7,026,121 Methods and compositions for diagnosing and monitoring transplant rejection.
- 50 7,024,312 Methods for making character strings, polynucleotides and polypeptides having desired characteristics



Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 1 of 2

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250 patents.

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Next 50 Hits

Refine Search ("component analysis" or pca) and ("genetic" or evolv

PAT. NO. Title offers form.

- 51 7,016,885 Self-designing intelligent signal processing system capable of evolutional learning for classification/recognition of one and multidimensional signals
- 52 7,016,787 T Characterizing biological stimuli by response curves
- 53 7,007,852 II Data distribution mechanism in the form of ink dots on cards
- 54 7,007,035 Parallel object-oriented decision tree system
- 55 7,006,939 Method and apparatus for low cost signature testing for analog and RF circuits
- 56 6.999.898 T Classification of deviations in a process
- 57 6,996,549 **II** Computer-aided image analysis
- 58 6,996,478 II Multiple sensing system and device
- 59 6,996,476 M Methods and systems for gene expression array analysis
- 60 6,994,971 T Particle analysis assay for biomolecular quantification
- 61 6.990.364 T Noninvasive measurement of glucose through the optical properties of tissue
- 62 6,988,056 T Signal interpretation engine
- 63 6,987,564 Automatic correction for continuum background in laser induced breakdown and Raman spectroscopy
- 6,987,001 Methods and compositions using stearoyl-CoA desaturase to identify triglyceride reducing therapeutic agents
- 65 6,986,562 T Printing cartridge with capacitive sensors for identification of characteristics
- 6,985,779 Monitoring system for an industrial process using one or more multidimensional <u>variables</u>
- 67 6,980,691 TI Correction of "red-eye" effects in images

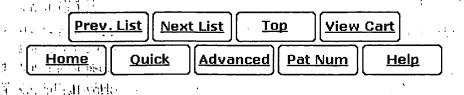
Method and apparatus for monitoring materials used in electronics

Stall 10 1 19

- 69 6,973,158 T Multi-target X-ray tube for dynamic multi-spectral limited-angle CT imaging
- 70 6,965,816 T PFN/TRAC system FAA upgrades for accountable remote and robotics control to stop the unauthorized use of aircraft and to improve equipment management and public safety in transportation
- 71 6,961,636 T Method and apparatus for dynamically monitoring controller tuning parameters
- 72 6,956,961 T Extracting shape information contained in cell images
- 73 6,954,722 Methods and systems for data analysis
- 74 6,954,254 T Printing cartridge with ink and print media supplies
- 75 6,953,663 I Polymorphism detection
- 76 6,953,235 T Printing cartridge with a data-carrying integrated circuit device
- 77 6,950,493 Dynamic multi-spectral CT imaging
- 78 6,950,492 Dynamic multi-spectral X-ray projection imaging
- 79 6.948.661 II Data structure encoded on a surface of an object
- 80 6,941,287 T Distributed hierarchical evolutionary modeling and visualization of empirical data
- 81 6,919,566 Method of calibrating a spectroscopic device
- 82 6,918,542 I Data distribution mechanism in the form of ink dots on cards
- 83 6,917,952 T Application-specific method and apparatus for assessing similarity between two data objects x
- 84 6,917,845 Method for monitoring environmental condition using a mathematical model
- 85 6,913,930 Analytical method and apparatus therefor involving continuous titration
- 86 6,907,436 T Method for classifying data using clustering and classification algorithm supervised
- 87 6.907.369 T Method and apparatus for modifying design constraints based on observed performance in the second
- 88 6,907,280 Method and apparatus for objectively measuring pain, pain treatment and other related techniques
- 89 6,883,364 **T** Portable sensor
- 90 6,882,992 II Neural networks for intelligent control
- 91 6,882,990 M Methods of identifying biological patterns using multiple data sets
- 92 6,879,729 T Parallel object-oriented, denoising system using wavelet multiresolution analysis
- 93 6,879,341 T Digital camera system containing a VLIW vector processor
- 94 6,876,760 II Classifying cells based on information contained in cell images producing them.
- 95 6,874,364 II System for monitoring mechanical waves from a moving machine
- 96 6,865,509 T System for providing control to an industrial process using one or more multidimensional variables
- 97 6,857,719 T Printing cartridge with pressure sensor array identification
- 98 6,853,920 TI Control for an industrial process using one or more multidimensional variables
- 99 6,850,274 TI Image texture mapping camera
- 100 6,839,636 Multiple sensing system and device

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Refine Search ("component analysis" or pca) and ("genetic" or evolved

PAT. NOT Title Machine.

- 101 6,837,095 Apparatus, systems and methods for detecting and transmitting sensory data over a computer network
- 102 6,836,240 Waveform synthesis for imaging and ranging applications
- 103 6,835,927 Mass spectrometric quantification of chemical mixture components
- 104 6,834,237 Method and system for classifying a biological sample
- 105 6,833,247 TRegulated prostate cancer genes

 $\mathcal{C}_{i_1} = \{i_1, \dots, i_{k+1}\}$

- 106 6,831,681 In Preprinted print rolls for use in an image processing device
- 107 6,828,933 Waveform synthesis for imaging and ranging applications
- 108 6,826,300 TFeature based classification
- 109 6,825,800 Waveform synthesis for imaging and ranging applications
- 110 6,819,787 The Robust stain detection and quantification for histological specimens based on a physical model for stain absorption
- 111 6,816,605 Methods and systems for biometric identification of individuals using linear optical spectroscopy
- 112 6,805,863 Methods of modulating immune coagulation

III and see .

- 113 6,803,989 II Image printing apparatus including a microcontroller
- 114 6,789,069 Method for enhancing knowledge discovered from biological data using a learning machine.
- 115 6,788,336 M Digital camera with integral color printer and modular replaceable print roll
- 116 6,786,420 Data distribution mechanism in the form of ink dots on cards
- 117 6,760,715 Enhancing biological knowledge discovery using multiples support vector machines

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- Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 2 of 2
- 118 <u>6,759,010</u> Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids
- 119 6,750,944 T Programmable camera system with software interpreter
- 120 6,750,901 Digital instant printing camera with image processing capability
- 121 6,746,960 T Electronic techniques for analyte detection
- 122 6,745,156 T Petroleum exploration and prediction apparatus and method
- 123 6,743,599 T Compositions and assays utilizing ADP or phosphate for detecting protein modulators
- 124 6,714,925 II System for identifying patterns in biological data using a distributed network
- 125 6,713,258 II Methods for genotyping by hybridization analysis
- 126 6,713,257 T Gene discovery using microarrays
- 127 6,703,241 T Referencing and rapid sampling in artificial olfactometry
- 128 6,702,417 In Printing cartridge with capacitive sensor identification
- 129 6,701,026 II Method and apparatus for cancelling lighting variations in object recognition
- 130 6,691,045 T Method for determining discrete quantitative structure activity relationships
- 131 6,690,817 T Spectral bio-imaging data for cell classification using internal reference
- 132 6,683,455 II Methods for spectral analysis and their applications: spectral replacement
- 133 6,681,132 T Sodium magnetic reasonance imaging used in diagnosing tumors and assessing response to treatment
- 134 6,680,369 Motor proteins and methods for their use
- 135 6,678,413

 System and method for object identification and behavior characterization using video analysis:
- 136 6,678,398 T Dual mode real-time screening and rapid full-area, selective-spectral, remote imaging and analysis device and process

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- 137 <u>6,675,164</u> II Parallel object-oriented data mining system
- 138 6,675,103 I Visualizing high dimensional descriptors of molecular structures in the latest and the latest a
- 139 6,671,056 T Method and system for optical spectrum analysis with a depolarized local oscillator
- 140 6,665,454 T Dot adjacency compensation in optical storage systems using ink dots
- 141 <u>6,658,915</u> **T** <u>Portable sensor</u>
- 142 6,644,771 T Printing cartridge with radio frequency identification
- 143 <u>6,636,216</u> In <u>Digital image warping system</u>
- 144 6,631,333 Methods for remote characterization of an odor
- 145 6,628,821 T Canonical correlation analysis of image/control-point location coupling for the automatic location of control points
- 146 6,627,154 T Electronic techniques for analyte detection
- 147 6,620,621 Method for the detection of cellular abnormalities using fourier transform infrared spectroscopy
- 148 6,618,140 I Spectral deconvolution of fluorescent markers
- 149 6,618,117 I Image sehsing apparatus including a microcontroller
- 150 6,610,367 The Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids of the least the sensors of varying thickness for detecting analytes in



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Refine Search ("component analysis" or pca) and ("genetic" or evol

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- 151 6,586,186 Polymorphism detection
- 152 6,577,754 Robust stain detection and quantification for histological specimens based on a physical model for stain absorption
- 153 6,570,608 System and method for detecting interactions of people and vehicles
- 154 6,565,181 Printing cartridge with switch array identification
- 155 6,560,352 **T** Apparatus and method of biometric identification or verification of individuals using optical spectroscopy
- 156 6,558,955 Methodology for predicting and/or diagnosing disease
- 157 6,556,853 Spectral bio-imaging of the eye
- 158 6,548,270 II DNA encoding human acid-sensing ion channel BNaC4 (ASIC4)
- 159 6,547,364 In Printing cartridge with an integrated circuit device
- 160 6,546,378 I Signal interpretation engine
- 161 6,544,193 I Noninvasive measurement of chemical substances
- 162 6,542,645 Adaptive tracking of dots in optical storage system using ink dots
- 163 6,537,211 II Flourescence imaging endoscope
- 164 6,503,719 Methods and apparatus for detecting polynucleotide hybridization
- 165 6,496,813 T Classifying apparatus using a combination of statistical methods and neuronal networks, designed in particular for odour recognition
- 166 6,495,341 Method and apparatus for monitoring a physical or chemical conversion of a grain material
- 167 RE37,933 T Viral vectors and their use for treating hyperproliferative disorders, in particular restenosis

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- 168 6,493,637 In Coincidence detection method, products and apparatus
- 169 6,476,863 In Image transformation means including user interface
- 170 6,459,495 In Dot center tracking in optical storage systems using ink dots
- 171 6,453,246 System, method, and computer program product for representing proximity data in a multi-dimensional space
- 172 6,450,008 Food applications of artificial olfactometry
- 173 <u>6,442,525</u> **M** System for authenticating physical objects
- 174 6,438,409 Methods of characterizing ventricular operations and applications thereof
- 175 6,431,669 Method and apparatus for information storage in a portable print roll
- 176 6,424,859 In Diagnosis of rheumatoid arthritis in vivo using a novel spectroscopic approach
- 177 6,422,061 Apparatus, systems and methods for detecting and transmitting sensory data over a computer network
- 178 6,421,614 Photometer system for obtaining reliable data
- 179 6,419,361 M Spectral bio-imaging of the eye
- 180 6,418,783 III Handheld sensing apparatus
- 181 6,416,154 In Printing cartridge with two dimensional code identification
- 182 6,415,054 Target detection for dot region alignment in optical storage systems using ink dots
- 183 6,410,254 The Compositions and assays utilizing ADP or phosphate for detecting protein modulators
- 184 6,405,065 M Non-invasive in vivo tissue classification using near-infrared measurements
- 185 6,403,089 Methods tof modulating immune coagulation. The influence of the coagulation of the coagulation of the coagulation.
- 186 6,400,828 Canonical correlation analysis of image/control-point location coupling for the automatic location of control points
- 187 6,387,329 Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids
- 188 6,379,929 The Chip-based isothermal amplification devices and methods the chip of the
- 189 6,362,869 Authentication system for camera print rolls
- 190 6,362,868 Print media roll and ink replaceable cartridge and appeared appeared appeared as
- 191 6,356,715 M Prints remaining indicating for camera with variable length print capability, over:
- 192 6,341,629 Testing device and method of use
- 193 6,339,950 In Process for determining the number of components in peaks, bands, and signals of chromatograms, electrograms, and spectrograms
- 194 6,333,501 Methods, apparatus, and articles of manufacture for performing spectral calibration

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- 195 6,317,192 III Utilization of image tiling effects in photographs.
- 196 6,315,200 The Encoded data card reading system
- 197 <u>6,300,063</u> **M** Polymorphism detection
- 198 6,297,018 Methods and apparatus for detecting nucleic acid polymorphisms
- 199 6,276,798 **T** Spectral bio-imaging of the eye
- 200 <u>6,251,615</u> T Cell analysis methods

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Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 1 of 3

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("component analysis" or pca) and ("genetic" or evol

PAT.

NO.

- 201 <u>6,236,047</u> Method for multi-spectral analysis of organic blood analytes in noninvasive infrared spectroscopy
- 202 6,234,006 Handheld sensing apparatus

Title

- 203 6,223,133 Method for optimizing multivariate calibrations
- 204 6,217,165 III Ink and media cartridge with axial ink chambers
- 205 6,212,824 Methods for classifying plants for evaluation and breeding programs by use of remote sensing and image analysis technology
- 206 6,200,798 Defective recombinant adenoviruses with inactivated IVa2 gene
- 207 6,198,532 II Spectral bio-imaging of the eye
- 208 <u>6,146,897</u> Method for the detection of cellular abnormalities using Fourier transform infrared spectroscopy
- 209 6,122,042 To Devices and methods for optically identifying characteristics of material objects
- 210 6,103,199 IT Capillary electroflow apparatus and method
- 211 6,085,576 II Handheld sensing apparatus
- 212 <u>6,066,459</u> Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding
- 213 6,055,325 M Color display of chromosomes or portions of chromosomes
- 214 6,051,559 The Cloning and characterizing of genes associated with long-term memory
- 215 6,040,578 Method and apparatus for multi-spectral analysis of organic blood analytes in noninvasive infrared spectroscopy
- 216 6,035,246 M Method for identifying known materials within a mixture of unknowns
- 217 6,018,587 Method for remote sensing analysis be decorrelation statistical analysis and hardware therefor
- 218 6,017,390 To Growth of oriented crystals at polymerized membranes

- 219 6,015,667 M Multicomponent analysis method including the determination of a statistical confidence interval
- 220 5,945,676 Method and apparatus for multi-spectral analysis in noninvasive NIR spectroscopy
- 221 5,936,731 Method for simultaneous detection of multiple fluorophores for in situ hybridization and chromosome painting
- 222 5,931,779 Real-time in-vivo measurement of myoglobin oxygen saturation
- 223 5,926,773 System for identifying known materials within a mixture of unknowns
- 224 5,912,165 Method for chromosome classification by decorrelation statistical analysis and hardware therefore
- 225 5,906,919 Method for chromosomes classification
- 226 5,871,946 Method for determining activity of enzymes in metabolically active whole cells
- 227 5,871,908 II Process for the determination of in vitro amplified nucleic acids
- 228 5,857,462 Systematic wavelength selection for improved multivariate spectral analysis
- 229 5,851,521 Viral vectors and their use for treating hyperproliferative disorders, in particular restenosis
- 230 <u>5,849,513</u> **T** Assay reagent
- 231 <u>5,834,203</u> Method for classification of pixels into groups according to their spectra using a plurality of wide band filters and hardwire therefore
- 232 5,822,742 Dynamically stable associative learning neural network system
- 233 <u>5,817,462</u> Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding
- 234 5,812,930 II Information handling systems with broadband and narrowband communication channels between repository and display systems
- 235 5,804,203 Topical product formulations containing strontium for reducing skin irritation
- 236 5,798,262 Method for chromosomes classification
- 237 5,784,162 Spectral bio-imaging methods for biological research, medical diagnostics and therapy
- 238 <u>5,776,720</u> Assay reagent
- 239 5,764,819 T Methods for classifying plants for evaluation and breeding programs by use of remote sensing and image analysis technology
- 240 5,752,007 System and method using separators for developing training records for use in creating an empirical model of a process
- 241 5,747,806 T Method and apparatus for multi-spectral analysis in noninvasive nir spectroscopy
- 242 5,733,719 Method of making an assay compound

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- 243 5,727,128 System and method for automatically determining a set of variables for use in creating a process model
- 244 <u>5,719,024</u> Method for chromosome classification by decorrelation statistical analysis and hardware therefore
- 245 5,698,411 Method for determining activity of enzymes in metabolically active whole cells
- 246 5,435,309 \(\mathbb{T} \) Systematic wavelength selection for improved multivariate spectral analysis
- 247 5,424,959 Interpretation of fluorescence fingerprints of crude oils and other hydrocarbon mixtures using neural networks
- 248 5,361,628 System and method for processing test measurements collected from an internal combustion engine for diagnostic purposes
- 249 5,166,747 Apparatus and method for analyzing the composition of formation fluids
- 250 4,994,671 T Apparatus and method for analyzing the composition of formation fluids

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Artificial Neural Networks, 1999. ICANN 99. Ninth International Conference on (Conf. Publ. No. 47(Volume 1, 7-10 Sept. 1999 Page(s):503 - 508 vol.1

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1 Real-world applications: papers: Evolutionary optimization of ZIP60: a controlled explosion in hyperspace . e. dve or evolutionary) ... Pare



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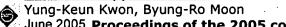
July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06

Publisher: ACM Press Full text available: pdf(346.20 KB) Additional Information: full citation, abstract, references, index terms

The "ZIP" adaptive trading algorithm has been demonstrated to outperform human traders in experimental studies of continuous double auction (CDA) markets. The original ZIP / algorithm requires the values of eight control parameters to be set correctly. A new extension of the ZIP algorithm, called ZIP60, requires the values of 60 parameters to be set correctly. ZIP60 is shown here to produce significantly better results than the original ZIP (called "ZIP8" hereafter). A genetic algorithm (GA) is us ...

Keywords: ZIP8 ZIP60, Zero-Intelligence-Plus (ZIP) Traders; algorithmic trading, auction markets, automated market-mechanism design

Real world applications: Nonlinear feature extraction using a neuro genetic hybrid



June 2005 Proceedings of the 2005 conference on Genetic and evolutionary. computation GECCO '05

Publisher: ACM Press

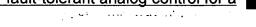
Full text available: pdf(361.05 KB)

Additional Information: full citation, abstract, references, citings, index

Feature extraction is a process that extracts salient features from observed variables. It is considered a promising alternative to overcome the problems of weight and structure optimization in artificial neural networks. There were many nonlinear feature extraction methods using neural networks but they still have the same difficulties arisen from the fixed network topology, In this paper, we propose a novel combination of genetic algorithm and feedforward neural networks for nonlinear feature and the last the las

30 adi taiva. 3 Keywords: feature extraction, function approximation, neuro-genetic hybrid stars to be

3 Evolvable hardware: papers: Evolutionary design of fault-tolerant analog control for a



piezoelectric pipe-crawling robot

Geoffrey A. Hollinger, David A. Gwaltney

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July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary

A word of the the company of the contract of t and the state and interpretation has Results (page 1): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 2 of 6

computation GECCO '06

Publisher: ACM Press

Full text available: pdf(418.13 KB) Additional Information: full citation, abstract, references, index terms

In this paper, a genetic algorithm (GA) is used to design fault-tolerant analog controllers for a piezoelectric micro-robot. First-order and second-order functions are developed to model the robot's piezoelectric actuators, and the GA is used to evolve closed-loop controllers for both models. The GA is first used to assist in traditional PID design and is later used to synthesize variable topology analog controllers. Through the use of a compact circuit representation, runtimes are minimized and ...

Keywords: evolvable hardware, genetic algorithms, inspection robots, piezoelectric actuators, robot control

Genetic programming: Open-ended robust design of analog filters using genetic. programming

Jianjun Hu, Xiwei Zhong, Erik D. Goodman

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

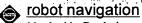
Publisher: ACM Press

Full text available: pdf(653.64 KB)... Additional Information: full citation, abstract; references, index terms

Most existing research on robust design using evolutionary algorithms (EA) follows the paradigm of traditional robust design, in which parameters of a design solution are tuned to improve the robustness of the system. However, the topological structure of a system may set a limit on the possible robustness achievable through parameter tuning. This paper proposes a new robust design paradigm that exploits the open-ended topological synthesis capability of genetic programming to evolve more robust ... 🔠 🚟 🚟 adect in root of a Pressent and or over the evolve three-doop

Keywords: analog filter synthesis, automated design, bond graphs, genetic programming,

Poster session: FPGA-based design of an evolutionary controller for collision-free



M. A. H. B. Azhar, K. R. Dimond

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February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international, symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The employment of field programmable gate arrays (FPGAs) to a robot controller is very attractive, since it allows for fast IC prototyping and low cost modifications. The speedup is achieved because of pipelining and dedicated functions in hardware that are customized to the problem. The self learning ability and the adaptive nature of an Artificial Neural Network (ANN) makes it a good candidate for the control structure of a robot's navigation. An evolutionary approach in designing robots can e ... The high law process and see

Poster session: A single-FPGA implementation of image connected component



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February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international out atmining, symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This paper describes an architecture based on a serial iterative algorithm for Image Connected Component Labelling with a hardware complexity O(N) for an NxN image. The algorithm iteratively scans the input image, performing a recursive non-zero maximum neighbourhood operation. A complete forward pass is followed by an inverse pass in which the image is scanned in reverse order. The process is repeated until no change in the image occurs. The algorithm has been coded in Handel C language and tar ...

7 Contributed articles: Genetic subtyping using cluster analysis

Tom Burr, James R. Gattiker, Greggory S. LaBerge

July 2001 ACM SIGKDD Explorations Newsletter, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(984.40 KB) Additional Information: full citation, abstract, references

In this paper we (1) describe state-of-the-art methods to identify clusters in DNA sequence data for taxonomic analysis; (2) describe a new method with better scaling properties based on model-based clustering, and (3) present examples using the nucleoprotein and hemagglutin regions of influenza and the *env* and *gag* regions of human immunodeficiency virus (HIV).

Keywords: DNA sequence analysis, HIV, influenza, model-based clustering, phylogenetic trees

8 Genetic algorithms: On favoring positive correlations between form and quality of candidate solutions via the emergence of genomic self-similarity

Ivan Garibay, Annie S. Wu, Ozlem Garibay

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary and computation GECCO '05

Publisher: ACM Press

Full text available: pdf(240,49 KB)

Additional Information: full citation, abstract, references, citings, index terms

A key property for the effectiveness of stochastic search techniques, including evolutionary algorithms, is the existence of a positive correlation between the form and the quality of candidate solutions. In this paper, we show that when the ordering of genomic symbols in a genetic algorithm is completely independent of the fitness function and therefore free to evolve along the candidate solutions it encodes, the resulting genomes self-organize into self-similar structures that favor this key s ...

Keywords: emergence, genetic algorithm, genomic self-similarity, proportional genetics algorithm, representation, self-organization

9 Learning Classifier systems and other genetics-based machine learning: papers:

Prediction update algorithms for XCSF: RLS, Kalman filter, and gain adaptation
Pier Luca Lanzi, Daniele Loiacono, Stewart W. Wilson, David E. Goldberg
July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary
computation GECCO '06

Publisher: ACM Press; Will, 1999

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Full text available: pdf(189:57 KB) Additional Information: full citation, abstract, references, index terms

We study how different prediction update algorithms influence the performance of XCSF. We consider three classical parameter estimation algorithms (NLMS, RLS, and Kalman filter) and four gain adaptation algorithms (K1, K2, IDBD, and IDD). The latter have been shown to perform comparably to the best algorithms (RLS and Kalman), but they have a lower complexity. We apply these algorithms to update classifier prediction in XCSF and compare the performances of the seven versions of XCSF on a set of ...

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Keywords: Kalman filter, LCS, XCS, prediction update (1) discuss a lide terralese filters (2) and the parallel and the state of the parallel filters (2) and the state of the parallel filters (3) and the state of the state

10 Crowd and group animation

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Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton

Results (page 1): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 4 of 6

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

11 Evolutionary hardware: Evolving analog controllers for correcting thermoacoustic



instability in real hardware ---Saranyan A. Vigraham, John C. Gallagher, Sanjay K. Boddhu

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(566.93 KB) Additional Information: full citation, abstract, references, index terms

Previous research demonstrated that Evolvable Hardware (EH) techniques can be employed to suppress Thermoacoustic (TA) instability in a computer simulated combustion chamber. Though that work established basic feasibility, there were still significant questions concerning whether those techniques would function in the real world. This paper presents the results of the next incremental step between controlling in pure simulation and controlling a real combustion chamber. In it, we will examine is ...

Keywords: evolvable hardware a classification in the state of the same of

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Eric B. Baum, Dan Boneh, Charles Garrett

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July 1995 Proceedings of the eighth annual conference on Computational learning theory COLT '95

Publisher: ACM Press

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Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

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and 2000 an accepting a profit of a con-13 Poster session: A SC-based novel configurable analog cell



Binlin Guo, Jiarong Tong

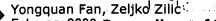


Publisher: ACM Press

gte smilliafed combestion Full text available: pdf(187.05 KB) Additional Information: full citation, abstract still arginificant

This paper presents a high performance Configurable Analog Cell (CAC) which is made up of a Basic Configurable Analog Cell (BCAC) and a digital converter block. The CAC can be used either for Field Programmable Analog Array (FPAA) or for Field Programmable Digital-Analog Mixed Array (FPMA). The BCAC include three innovative Programmable Switch Blocks (PSBs), three Programmable Capacitor Arrays (PCAs), and an amplifier. PSB and PCA can be programmed to generate many equivalent components. In addi ...

14 Poster session: Testing for bit error rate in FPGA communication interfaces



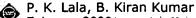


Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

FPGAs have witnessed an increased use of dedicated communication interfaces. With their increased use, it is becoming critical to test and properly characterize all such interfaces.

Bit error rate (BER) characteristic is one of the basic measures of the performance of any digital communication system. We propose a scheme for BER testing in FPGAs, which exhibits a few orders of magnitude speedup compared to traditional software simulation methods. In this scheme, we include a novel implementation ...

15 Poster session: An FPGA architecture with built-in error correction capability



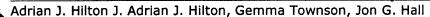
February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The use of very deep submicron technology makes VLSI-based digital systems more susceptible to transient or soft errors, and thus compromises their reliability. This paper proposes an FPGA architecture inspired by the human immune system that allows tolerance of transient errors. The architecture is composed of a two-dimensional array of identical functional cells with different genetic codes. These codes are chosen based on the required functions to be performed by the functional cells. An erro ...

16 Poster session: FPGAs in critical hardware/software systems



February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

FPGAs are being used in increasingly complex roles in critical systems, interacting with conventional critical software. Established safety standards require rigorous justification of safety and correctness of the conventional software in such systems. Newer standards now make similar requirements for safety-related electronic hardware, such as FPGAs, in these systems. In this paper we examine the current state-of-the-art in programming FPGAs, and their use in conventional (low-criticality) hard, s Fr 3A 33

าสอกอา Law basis∫ 17 Poster session: Design framework for the implementation of the 2-D orthogonal

discrete wavelet transform on FPGA

A. Benkrid, D. Crookes, K. Benkrid

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB). Additional Information: full citation, abstract, citings

This paper gives a design framework for the implementation of the 2-D Orthogonal Discrete Wavelet Transform (DWT) on FPGA. The architecture is based on the Pyramid Algorithm Analysis. Our architecture spatially maps the multistage filter banks of the DWT onto the Xilinx Virtex-E FPGA family. In this paper we propose a novel FIR structure to handle the computation along the borders using symmetric extension. The paper includes a new detailed mathematical approach to determine the architecture's d ...

18 Poster session: Lattice adaptive filter implementation for FPGA

Zdenek Pohl, Rudolf Matoušek, Jirí Kadlec, Milan Tichý, Miroslav Lícko ac as assific

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Our poster introduces an innovative RLS Lattice filter implementation for FPGAs. The signal processing applications typically require wide numeric range, and that poses a problem when using an FPGA implementation. Our approach is based on arithmetic using logarithmic numeric representation (LNS). The test application - an adaptive noise canceller - has been optimized for the Xilinx Virtex devices. It consumes roughly 70% of all logic resources of the XCV800 device and all block memory cells. The ...

Poster session: A high-speed successive erasure BCH decoder architecture

Thomas Buerner

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187,05 KB) Additional Information: full citation, abstract

A new high speed architecture for a BCH successive erasure decoder is presented. The Berlekamp-Massey based decoder by Sarwate and Shanbhag is extended to handle successive erasures. The critical path in the calculation submodules is increased from Tadd+Tmult to Tadd+Tmult+Tmux. The proposed architecture is implemented exemplary for a BCH(63,45,7) code with up to two erasures on a XILINX Spartan2E300-7. Thus a clock frequency of 95 MHz is reached using 47% of the available slices instead of 105 ...

20 Poster session: A physical retiming algorithm for field programmable gate arrays



(abstract only)

Peter Suaris, Dongsheng Wang, Pei-Ning Guo, Nan-Chi Chou February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

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Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

In this paper, we present a physical retiming algorithm for sequential circuits implemented in field programmable gate arrays (FPGAs). This algorithm can speed up the sequential circuits by reducing delay of all critical paths with negative slacks. By taking advantage of the physical information provided by placed circuits, this algorithm integrates two operations: retiming and register duplication. Retiming moves registers across combinational components. Register duplication moves registers ac ...

Results 1 = 20 of 200 = 8 = 10 = Result page: 1 2 3 4 5 6 7 8 9 10 = next ...

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February 2003. Proceedings of the 2003 ACM/SIGDA eleventh international, the step in Trigging the symposium on Field programmable gate arrays FPGA '03"

Publisher: ACM Pressis water

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Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The low operating speed of current CMOS Field Programmable Gate Arrays (FPGAs), i.e., 10-220 MHz, has prevented their use in high-speed digital applications. With the advent of IBM:Silicon Germanium (SiGe) 7HP technology, designers have been able to design FPGAs

Catallia Michael 1982 184

operating in the gigahertz range. This paper is going to elaborate on the implementation of a 4-bit ripple-carry full adder (FA) on the new SiGe FPGA with new architectures and a novel power management strategy. The 1-bit FA can be reali ...

24 Poster session: A high resolution diagnosis technique for open and short defects in



FPGA interconnects

Mehdi Baradaran Tahoori February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

A two-step diagnosis flow, coarse-grain and fine-grain, is presented in order to identify a faulty element in the FPGA interconnects. The fault models used for interconnect are open, resistive-open, and bridging fault. The coarse-grain phase identifies the faulty net, the routing between two consecutive sequential elements in the FPGA. This phase is performed by just post-processing tester results for the test configurations used for interconnect testing. During the fine-grain step, the faulty n ...

Poster session: Application-dependent testing of FPGAs for bridging faults



Mehdi Baradaran Tahoori February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

A new technique is presented for testing for bridging faults in the interconnects of an arbitrary design implemented in an FPGA. The configuration of the routing resources used in the original design remains unchanged in the test configurations. Only the logic blocks used in the design are reprogrammed in order to implement single-term functions, logic functions with only one minterm or one maxterm. As shown by formal proofs, all activated faults are detected when single-term functions and appro...

Tunher A Lancussia 26 Poster session: Design strategies and modified descriptions to optimize cipher FPGA





implementations: fast and compact results for DES and triple-DES

Gaël Rouvroy, Francois-Xavier Standaert, Jean-Jacques Quisquater, Jean-Didier Legat February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract, citings

We propose a new mathematical DES description that allows optimized implementations. It also provides the best DES and triple-DES FPGA implementations known in term of ratio throughput/area, where area means the number of FPGA slices used. First, we get a less resource consuming unrolled DES implementation that works at data rates of 21.3 Gbps (333 MHz), using VIRTEX II technology. In this design, the plaintext, the key and the mode (encryption/decrytion) can be changed on a cycle-by-cycle basis ...

27 Poster session: Wireless sensor networks: a power-scalable motion estimation IP for



hybrid video coding and the factor between Federico Quaglio, Maurzio Martina, Fabrizio Vacca, Guido Masera, Andrea Molino, Gianluca Piccinini, Maurizio, Zamboni ser early exchans, logic

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

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Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Wireless Sensor Networks are an emerging phenomenon in the research community. The design and development of network architectures and nodes implementation are fostering many research activities. Due to their wide application fields and pervasive employment possibilities, the investigation of novel classes of wireless sensor nodes is of great concern. Results (page 2): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 3 of 6

In this paper we presented a novel Power-Scalable Motion Estimation IP suitable for videosurveillance over Wireless Sensor Networks. The proposed ...

28 Poster session: Synthetic circuit generation using clustering and iteration

Paul D. Kundarewich, Jonathan Rose

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press'

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The development of next-generation CAD tools and FPGA architectures requires. benchmark circuits to experiment with new algorithms and architectures. There has always been a shortage of good public benchmarks for these purposes, and even companies that have access to proprietary customer designs could benefit from designs that meet size and other particular specifications. In this paper, we present a new method of generating realistic synthetic benchmark circuits to help alleviate this shortage. ...

Poster session: Reconfigurable randomized K-way graph partitioning

Fatih Kocan

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03 t ju like of evolutionitry) ii. Page 3 o.

Publisher: ACM Press 2 100 11 5

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract pdf in scitable for Video-

In this paper, a randomized k-way graph partitioning algorithm is mapped onto reconfigurable hardware. The randomized algorithm relies on repetitive running of the same algorithm with different random number sequences to achieve the (near-)optimal solution. The run-time and hardware requirements of this reconfigurable solution per a random number sequence are O(|V|-K) cycles and O(|V|log|V|+|E|) gates and flip-flops, respectively. Performance is improved further at the expense of more hardware b ...

30 Poster session: An automated and power-aware framework for utilization of IP cores

Alex Jones, Prith Banerjee

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press Francis

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Use of hand optimized Intellectual Property (IP) logic cores is prolific in hardware design. While IP cores remain, a standard way to utilize the improvement in FPGA technology and contend with time to market pressure through reuse, popularity of tools generating hardware descriptions from high-level languages is also increasing in popularity. PACT HDL combines these two methods within a power-aware framework. The PACT HDL compiler generates power optimized VHDL/Verilog from a C language descript ...

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I method of the sure of light of the long of 31 Poster session: Power-aware architectures and circuits for FPGA-based signal

processing

Frank Honoré, Ben Calhoun, Anantha Chandrakasan

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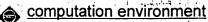
Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This work showcases a power-aware system design methodology for DSP applications on reconfigurable hardware platforms. In particular, an enhanced FPGA architecture is proposed and analyzed for a deep submicron process technology. These enhancements reduce Configurable Logic Block (CLB) usage for distributed arithmetic implementations of signal processing applications by 50% or more thereby reducing the load on interconnect resources. Multi-Threshold CMOS (MTCMOS) circuit design techniques are ag ...

Results (page 2): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 4 of 6

32 Poster session: On computation and resource management in an FPGA-based



Soheil Ghiasi, Karlene Nguyen, Elaheh Bozorgzadeh, Majid Sarrafzadeh February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press, 新國際語

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract, citings

The idea of managing the comprising computations of an application executed in an FPGAbased system is presented. An efficient algorithm for exploiting the timing slack of building blocks of the application is proposed. The slack of these blocks can be utilized by replacing them with slower but "cheaper" modules and by assigning the computations to the proper resources. Thus, our approach manages the comprising computations and system resources at the same time. This is performed without comprom ...

33 Poster session: On hiding latency in reconfigurable systems: the case of merge-sort





for an FPGA-based'system

Hossam ElGindy, George Ferizis

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Recursive solutions are effective software techniques that are difficult to map into hardware due to their dependency on input size and data values. As a result, most highlevel design tools do not allow for recursive calls. In this paper we present a technique for mapping the merge-sort algorithm, as a case study, into a reconfigurable system. Our mapping employs an on-line prediction method to reconfigure the necessary hardware only when the need arises, and to hide the reconfiguration delay. ...

m 13.1. 1. 种型混合物 34 Poster session: Using FPGAs for data and reorganization engines: preliminary



results for spatial pointer-based data structures

Pedro C. Diniz, Joonseok Park

ha Hillad by not February 2003, Proceedings of the 2003 ACM/SIGDA eleventh international, the proceedings symposium on Field programmable gate arrays FPGA 103_{M REP}

Publisher: ACM Pressing ettime in

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

FPGAs have appealing features such as customizable internal and external bandwidth and the ability to exploit vast amounts of fine-grain instruction-level parallelism. In this paper we explore the applicability of these features in using FPGAs as data search and reorganization engines for performing search and reorganization computations over spatial pointer-based data structures for which traditional computing platforms perform poorly. The preliminary experiments, for a set of simple spatial qu ...

35 Poster session: Recursive circuit clustering for minimum delay and area

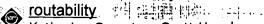


February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

We present an effective recursive algorithm for circuit clustering for delay and area minimization, which is applicable to FPGAs. At the highest level of clustering, the circuit is clustered using a modified single-level clustering algorithm. A cluster to netlist transformation technique is proposed, which converts each cluster into a new subcircuit. The algorithm then continues recursively by clustering the generated subcircuits into further levels of clusters. To reduce the amount of node dupl ...



Katherine Compton, Scott Hauck

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press --

The design of a routing channel for an FPGA is a complex process, requiring the careful balance of flexibility with silicon efficiency. With the growing move towards embedding FPGAs into SoC designs, and the opportunity to automatically generate FPGA. architectures, this problem becomes even more critical. The design of a routing channel requires determining the number of routing tracks, the length of the wires in those tracks, and the positioning of the breaks on the tracks. This paper focuses o ...

37 Poster session: Implementation of digital fixed-point approximations to continuous-



J. E. Carletta, R. J. Veillette, F. W. Krach, Z. Fang

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

An analytical framework for the implementation of digital infinite impulse response filters in fixed-point hardware on FPGAs is presented. It presumes that a continuous-time filter with the desired response is given. Within the framework, the constant coefficient bit widths are determined by accounting for the sensitivity of the filter's pole and zero locations with respect, to the coefficient perturbations. The internal signal bit widths are determined by calculating theoretical bounds on the ra ...

38 Poster session: Customized regular channel design in FPGAs



Elaheh Bozorgzadeh, Majid Sarrafzadeh

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February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press, Fig.

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In this paper, we study the problem of customized regular segmentation design in FPGA routing channels. We propose a deterministic algorithm for segmentation design problem in which each interval is assigned to only one segment (1-Segmentation). We solve the problem of maximum number of incremental track assignment of intervals by mincost network flow technique for 1-Segmentation design. The general K-Segmentation design problem can also be solved by some modifications in our algorithm. We have ...

39 Poster session: Design of a fingerprint system using a hardware/software



Lee Vanderlei Bonato, Rolf Fredi Molz, João Carlos Furtado, Marcos Flores Ferrão, Fernando

off and fried delivers. February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Processing system of; fingerprint are CPU time intensive, being normally implemented in software. This paper present a new algorithm for fingerprint features localization, that can be easily implemented in hardware (system-on-a-chip, FPGA) "This algorithm is composed by 3 stages, first stage read a fingerprint image (255x255pixels, ash tones) and apply a Gaussian Filter, after this, apply a absolute difference mask (ADM) for detector the edges in the image filtered and the last stage look for fin ...

Stephan Bingemer, Peter Zipf, Manfred Glesner

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press * 1

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Field-programmable logic has become an increasingly important technology for the design of digital circuits. One interesting point in the field of reconfigurable logic is its classification within the implementation space of other technologies. Such a classification gains importance if FPGA technology becomes an integral part of Systems-on-a-Chip (SoC). The poster discusses an approach to classify technologies based on their granularity. Therefore, a new distinction into homogeneous and heteroge ...

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41 Poster session: A logic based approach to hardware abstraction

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K. Benkrid, S. Belkacemi, D. Crookes

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This paper presents a novel approach to hardware abstraction based on the logic programming language Prolog. This is an attempt to satisfy the dual requirement of abstract hardware; design and hardware efficiency. Central to this approach is a hardware description environment called HIDE, which provides more abstract hardware descriptions and compositions than are possible in traditional hardware description languages such as VHDL or Verilog. HIDE enables highly scaleable and parameterised compos ...

42 Poster session: Making area-performance tradeoffs at the high level using the



AccelFPGA compiler for FPGAs

Desirable in a supplication of the contraction

P. Banerjee, V. Saxena, J. Uribe, M. Haldar, A. Nayak, V. Kim, D. Bagchi, S. Pal, N. Tripathi, R. Anderson

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Applications such as digital cell phones, 3G wireless receivers, and voice over IP, require DSP functions that are typically mapped onto general purpose DSP processors. With the introduction of advanced FPGA architectures which provide built-in DSP support such as the Xilinx Virtex-II, and the Altera Stratix, a new hardware alternative is available for DSP designers. DSP design has traditionally been divided into algorithm development and hardware/software implementation. The majority of DSP alg ...

Poster session: FPGA implementation of a fast Hadamard transformer for WCDMA Sanat Kamal Bahl, Jim Plusquellic



February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

In code division multiple access (CDMA) systems the base station identifies each user in a cell by unique orthogonal (Walsh) codes. The Walsh codes are generated at the transmitter using a Walsh-Hadamard function. A Fast Hadamard Transformer (FHT) is used at the receiver to decode the transmitted codes. The purpose of this study is to design a FHT which utilizes less hardware resources as compared to the existing designs and also

Results (page 3): ("component analysis" or pca) and ("genetic" or evolve or evolutionary)... Page 2 of 6 suggest means for reducing the input length of the Walsh sequence. ...

44 Discovering Gene Networks with a Neural-Genetic Hybrid

Edward Keedwell, Ajit Narayanan

July 2005 IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), Volume 2 Issue 3

Publisher: IEEE Computer Society Press

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, index terms

Recent advances in biology (namely, DNA arrays) allow an unprecedented view of the biochemical mechanisms contained within a cell. However, this technology raises new challenges for computer scientists and biologists alike, as the data created by these arrays is often highly complex. One of the challenges is the elucidation of the regulatory connections and interactions between genes, proteins and other gene products. In this paper, a novel method is described for determining gene interactions i ...

Keywords: Index Terms- Gene expression analysis, neural networks, genetic algorithms, reverse-engineering, gene interactions.

45 A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002 ACM SIGKDD Explorations Newsletter, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

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Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4 products. In this

Publisher: ACM Press had we

Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, citings, index terms and the pdf(4.28 MB)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

47 Genetic algorithms: Combating user fatigue in iGAs: partial ordering, support vector

machines, and synthetic fitness

restration of the confidence of the

Xavier Llorà, Kumara Şastry, David E. Goldberg, Abhimanyu Gupta, Lalitha Lakshmi June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(342.37 KB)

Additional Information: full citation, abstract, references, citings, index terms

One of the daunting challenges of interactive genetic algorithms (iGAs)---genetic algorithms in which fitness measure of a solution is provided by a human rather than by a

Results (page 3): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 3 of 6

fitness function, model, or computation---is user fatigue which leads to sub-optimal solutions. This paper proposes a method to combat user fatigue by augmenting user evaluations with a synthetic fitness function. The proposed method combines partial ordering concepts, notion of non-domination from multiobjective optimization, ...

Keywords: human evaluation, interactive evolutionary computation, support vector machines, synthetic fitness

48 EvoFIT: A holistic, evolutionary facial imaging technique for creating composites



July 2004 ACM Transactions on Applied Perception (TAP), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(2.00 MB) Additional Information: full citation, abstract, references, index terms

EvoFIT, a computerized facial composite system is being developed as an alternative to current systems. EvoFIT faces are initially presented to a witness with random characteristics, but through a process of selection and breeding, a composite is "evolved." Comparing composites constructed with E-FIT, a current system, a naming rate of 10% was found for EvoFIT and 17% for E-FIT. Analysis revealed that target age was limiting factor for EvoFIT and a second study with age-appropriate ... эзу, бус бол провейканы тал

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Keywords: Design, experimentation, human factors នាក់នេះ (C. 2019), ក្រឡាមៀត (C. 2019) ទៅ ម៉ាចនៅ (C. 2019) ក្នុងអ៊ីកា (C. 2019) កូនម

Metaheuristics in combinatorial optimization: Overview and conceptual comparison

Christian Blum, Andrea Roli

September 2003, ACM Computing Surveys (CSUR), Volume 35 Issue 3 cm, Still port vector

Publisher: ACM Press a htm://

Full text available: pdf(431.84 KB)

Additional Information: full citation, abstract, references, citings, index

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly growing field of research. This is due to the importance of combinatorial optimization problems for the scientific as well as the industrial world. We give a survey of the nowadays most important metaheuristics from a conceptual point of view. We outline the different components and concepts that are used in the different metaheuristics in order to analyze their similarities and differences. Two v ...

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Julien Budynek, Eric Bonabeau, Ben Shargel

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(456.56 KB) terms

CHARLES & DEVIACED COMMENT OF Evolutionary computation is used to construct undetectable computer attack scripts. Using a simulated operating system, we show that scripts can be evolved to cover their tracks and become difficult to detect from log file analysis.

Keywords: agent-based model, hacker, log analysis, script kiddies, vulnerability.... assessment if a field off it. ...It of a million of

Genetic algorithms: papers: Credit assignment in adaptive evolutionary algorithms



James M. Whitacre, Tuan Q. Pham, Ruhul A. Sarker

July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(312.46 KB)

In this paper, a new method for assigning credit to search operators is presented. Starting with the principle of optimizing search bias, search operators are selected based on an ability to create solutions that are historically linked to future generations. Using a novel framework for defining performance measurements, distributing credit for performance, and the statistical interpretation of this credit, a new adaptive method is developed and shown to outperform a variety of adaptive and non- ...

Keywords: adaptation, evolutionary algorithm, genetic algorithm, historical credit assignment, search bias

Data stream processing: Adaptive non-linear clustering in data streams

Ankur Jain, Zhihua Zhang, Edward Y. Chang

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November 2006 Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06

Publisher: ACM Press

Full text available: pdf(813.29 KB) Additional Information: full citation, abstract, references, index terms

Data stream clustering has emerged as a challenging and interesting problem over the past few years. Due to the evolving nature, and one-pass restriction imposed by the data stream model, traditional clustering algorithms are inapplicable for stream clustering. This problem becomes even more challenging when the data is high-dimensional and the clusters are not linearly separable in the input space. In this paper, we propose a nonlinear stream clustering algorithm that adapts to the stream's evoc sented. Starting

Keywords: data streams, dimension reduction, kernel methods, stream clustering,:: stream mining to make and the second การทำเหนาการ์ยากุลการณ์สนาดาเอา med the sums to prederight acted or a multipolis developed and

a and to only endominates at the 53 Learning classifier systems and other genetics-based machine learning: Kernelbased, ellipsoidal conditions in the real-valued XCS classifier system. Martin V. Butz

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

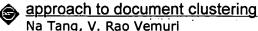
Publisher: ACM Press :: 1945

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.66 MB) terms

Many learning classifier system (LCS) implementations are restricted to the binary problem realm. Recently, the XCS classifier system was enhanced to be able to handle real-valued inputs among others. In the real-valued enhancement, XCSF applies as a function approximation system that partitions the input space in hyperrectangular, are subspaces specified in the classifiers. This paper changes the classifier conditions to data hyperspheres and hyperellipsoids and investigates the consequent performance im ... :.... THE REPORT OF CHARLES

Keywords: GAs, XCS, function approximation, learning classifier systems, piece-wise linear approximation, radial bases

54 Evolutionary computation and optimization (ECO): An artificial immune system



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March 2005 Proceedings of the 2005 ACM symposium on Applied computing SAC '05

Publisher: ACM Press

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Results (page 3): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 5 of 6

Full text available: pdf(182.87 KB) Additional Information: full citation, abstract, references, index terms

It has recently been shown that artificial immune systems (AIS) can be successfully used in many machine learning tasks. The aiNet, one such AIS algorithm exploiting the biologically-inspired features of the immune system, performs well on elementary clustering tasks. This paper proposes the use of the aiNet to more complex tasks of document clustering. Based on the immune network and affinity maturation principles, the aiNet performs an evolutionary process on the raw data, which removes data r....

Keywords: artificial immune system, document clustering

55 Genetic algorithms: Intelligent exploration for genetic algorithms: using self-

organizing maps in evolutionary computation

Heni Ben Amor, Achim Rettinger

ing community and being

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press : 1:3

Full text available: pdf(397.40 KB) Additional Information: full citation, abstract, references, index terms

Exploration vs. exploitation is a well known issue in Evolutionary Algorithms. Accordingly, an unbalanced search can lead to premature convergence. GASOM, a novel Genetic Algorithm, addresses this problem by intelligent exploration techniques. The approach uses Self-Organizing Maps to mine data from the evolution process. The information obtained is successfully utilized to enhance the search strategy and confront genetic drift. This way, local optimalare avoided and exploratory power is maintal in the exploration of the learning of the search strategy and confront genetic drift.

Keywords: diversity, exploration vs. exploitation, genetic algorithm, genetic drift, premature convergence, self-organizing map

Learning Classifier systems and other genetics-based machine learning: papers:

Hyper-ellipsoidal conditions in XCS: rotation, linear approximation, and solution

Martin V. Butz, Pier Luca Lanzi, Stewart W. Wilson

July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06

Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, index terms

Keywords: LCS, XCS, function approximation, genetic algorithms, locally weighted learning, recursive least squares

57 Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Publisher: ACM Press

Full text available: Additional Information: full citation, references, citings, index terms

Jörg Haber, Demetri Terzopoulos

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH

Publisher: ACM Press

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In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

Genetic programming: Evolving fuzzy decision tree structure that adapts in real-time



James F. Smith

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

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A fuzzy logic algorithm has been developed that automatically allocates electronic attack (EA) resources distributed over different platforms in real-time. The controller must be able to make decisions based on rules provided by experts. The fuzzy logic approach ... allows the direct incorporation of expertise. Genetic algorithm based optimization is conducted to determine the form of the membership functions for the fuzzy root concepts. The resource manager is made up of five parts, the isolated pl

Keywords: expert systems, fuzzy logic, genetic algorithm, genetic program, resource management, self-morphing

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XCS system for distributed data mining

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Hai H. Dam, Hussein A. Abbass, Chris Lokan

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COLD OF SAIL SYSTEM 5

Full text available: pdf(481.30 KB) Additional Information: full citation, abstract, references, index terms XCS is a flexible system for data mining due to its ability to deal with environmental changes, learn online with little prior knowledge and evolve accurate and maximally general classifiers. In this paper, we propose DXCS which is an XCS-based distributed data mining system. A MDL metric is proposed to quantify and analyze network load, and study the balance between network load and classifier accuracy in the presence of noise. The DXCS system shows promising results.

Keywords: MDL, XCS, distributed data mining, learning classifier system

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